CLAIMS

1.   A communication module comprised of methods to exchange data flows with a communication network with the communication session framework established and organized per the communication session contexts (26, 27) and of security methods (28, 29) for the control of exchanged data flows, which are characterized by the fact that such security methods (28, 29) for the control of exchanged data flows are organized so as to operate in connection with at least one parameter attached to the communication session context (26, 27) of the corresponding session.

2.   Per claim 1, a module in which the security methods (28, 29) for the control of exchanged data flows are organized so as to operate in connection with a communication session context key (26, 27) of the corresponding session.

3.   Per claim 1, a module in which the security methods (28, 29) for the control of exchanged data flows are organized so as to operate in connection with at least one constituent parameter of the communication session context (26, 27) of the corresponding session.

4.   Per claim 3, a module in which such parameter is an address of the module or of equipment within which it is incorporated, a service quality associated with the data flows exchanged, or the target network's key.

5.   Per claim 1, a module in which the methods to exchange data flows include methods to exchange packet data flows, with the security methods for the control of data flows being organized so as to operate on the packet data.

6.   Per claim 1, a module in which the security methods (28, 29) for the control of exchanged data flows includes a filter (1, 2) that operates by filtration on the data flows.

7.   Per claim 1, a module in which the security methods (28, 29) for the control of the exchanged data flows includes first and second filters (1, 2), which operate by filtration on the exchanged data flows, and one or more gateways (3) for the control of the data flows exchanged in connection with one or more criteria related to a data application, in which at least one of the

first and second filters is a mechanism operating in connection with at least one parameter attached to the communication session context of the corresponding session.

8.   A radiocommunication module, including a communication module per part of claim 1.

9.   A mobile station (21) capable of data exchange with a radiocommunication network (22, 23), including a radiocommunication module per claim 8.

10.   Infrastructure equipment of a radiocommunication network, including a communication module per part of claim 1.

11.   A process to carry out security control for data flows exchanged between a communication module and a communication network during the communication session organized per communication session contexts, in which:
-    a communication session is established with a remote correspondent, often an active communication session context; and
-    one controls, within the established session, the data flows exchanged per the active communication session context, in connection with at least one parameter attached to such context.

12.   Per claim 11, a process in which one controls the data flows exchanged per the active communication session context, in connection with a key of such active context.

13.   Per claim 11, a process in which one controls the flows of data exchanged per the active communication session context, in connection with at least one constituent parameter of such active context (26, 27).

14.   Per claim 13, a process in which such parameter is a module address, a service quality associated with the exchange of data flows, or the target network's key.

15.   Per claim 11, a process in which one controls the packet data flows exchanged per the active communication session context, in connection with at least one parameter attached to the communication session context of the corresponding session.

16.   Per claim 11, a process in which one controls the data flows exchanged per the active communication session context by filtering such data flows through at least one filter operating in connection with at least one parameter attached to the communication session context of the corresponding session.

17.   Per claim 11, a process in which one controls the data flows exchanged per the active communication session context by filtering such data flows through at least first and second filters, in order to filter the exchanged data flows, and one or more gateways controlling the data flows exchanged in connection with one or more criteria related to a data application, at least one of the first and second filters being organized so as to operate in connection with at least one parameter attached to the communication session context of the corresponding session.

18.   A computer program, storable in memory, that is connected with a processor and that includes instructions for the placement into operation of a process, per part of claim 11, during the execution of such program by the processor.

19.   Storage media on which the program, per claim 18, is recorded.